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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/017,077	12/14/2001	James L. Filson	353 USF	7531
23774	7590 05/14/2002			
DOUGLAS G GLANTZ ATTORNEY AT LAW			EXAMI	NER
5260 DEBOI	RAH COURT		CINTINS, IVARS C	
DOTLESTO	WN, PA 18901		ART UNIT	PAPER NUMBER
			1724	(
			DATE MAILED: 05/14/2002	0

Please find below and/or attached an Office communication concerning this application or proceeding.

TC-6

Office Action Summary

Application No. 10/017,077

Applicant(s)

Filson et al.

Examiner

Ivars Cintins

Art Unit 1724



	The MAILING DATE of this communication appears	on the cover sheet with the correspondence address		
Period	for Reply	·		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.				
	sions of time may be available under the provisions of 37 CFR 1.136 (a). In g date of this communication.	no event, however, may a reply be timely filed after SIX (6) MONTHS from the		
- If NO - Failure - Any re	period for reply specified above is less than thirty (30) days, a reply within the period for reply is specified above, the maximum statutory period will apply a to reply within the set or extended period for reply will, by statute, cause the ply received by the Office later than three months after the mailing date of the platent term adjustment. See 37 CFR 1.704(b).	nd will expire SIX (6) MONTHS from the mailing date of this communication. le application to become ABANDONED (35 U.S.C. § 133).		
Status				
1) 💢	Responsive to communication(s) filed on Mar 29, 2	002		
2a) 🗌	This action is FINAL . 2b) 🔀 This act	ion is non-final.		
3) 🗆	Since this application is in condition for allowance eclosed in accordance with the practice under Ex particle.	except for formal matters, prosecution as to the merits is re Quayle, 1935 C.D. 11; 453 O.G. 213.		
Disposi	tion of Claims			
4) 💢	Claim(s) <u>12-19</u>	is/are pending in the application.		
4	la) Of the above, claim(s)	is/are withdrawn from consideration.		
5) 🗆	Claim(s)	is/are allowed.		
6) 💢	Claim(s) <u>12-19</u>	is/are rejected.		
7) 🗆	Claim(s)	is/are objected to.		
8) 🗆	Claims	are subject to restriction and/or election requirement.		
Application Papers				
9) 🗌	The specification is objected to by the Examiner.			
10)	The drawing(s) filed on is/are	a) \square accepted or b) \square objected to by the Examiner.		
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).				
11)	The proposed drawing correction filed on	is: a) \square approved b) \square disapproved by the Examiner.		
If approved, corrected drawings are required in reply to this Office action.				
12)	The oath or declaration is objected to by the Exami	ner.		
Priority under 35 U.S.C. §§ 119 and 120				
13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).				
a) □ All b) □ Some* c) □ None of:				
1. Certified copies of the priority documents have been received.				
2. Certified copies of the priority documents have been received in Application No				
	application from the International Burea			
	ee the attached detailed Office action for a list of the			
14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).				
a) ∟ 15) □	a transfer and transfer transfer providence			
Attachm	Acknowledgement is made of a claim for domestic	priority under 35 U.S.C. 33 120 and/or 121.		
r	errus) tice of References Cited (PTO-892)	4) Interview Summary (PTO-413) Paper No(s).		
	tice of Draftsperson's Patent Drawing Review (PTO-948)	5) Notice of Informal Patent Application (PTO-152)		
3) X Inf	ormation Disclosure Statement(s) (PTO-1449) Paper No(s)5	6) Other:		

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The disclosure is objected to because the first sentence of the specification following the title fails to contain a reference to Applicant's parent application (i.e. Serial No. 09/113,982, filed July 10, 1998, now U.S. Patent No. 6,346,195), as required by 37 C.F.R. § 1.78(a)(2). Also, the relationship between this application and the parent application (i.e. a division) must be indicated, as further required by 37 C.F.R. § 1.78(a)(2).

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 12-19 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which Applicant regards as the invention. The term "ion exchange unit operation" (claim 12, line 7; and claims 17-19, line 2) is vague, and indefinite as to the structural limitation intended. Similarly, claims 13-16 are vague and indefinite as to the structural limitations contained therein, since the recited "wastewater" does not appear to be a structural element of the recited apparatus. Also, the parenthetical expressions recited in claims

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14 (line 4) and 16 (line 4) are deemed to be redundant, and hence somewhat indefinite.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 12-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Faylor et al (U.S. Patent No. 3,870,033). The reference discloses (see Fig. 2) a system comprising a carbon bed (42, 45), and an ion exchange unit (52, 54, 56) downstream from the carbon bed; and this is all that is required by the apparatus limitations of claims 12-16. Applicant should note that the intended use of a device (i.e. for removing metal ions from wastewater containing solids sized in the range of about 0.01-1.0 μm in an amount higher than about 50 mg/l) is not a structural limitation, and hence cannot be relied upon to patentably distinguish apparatus claims 12-16. It is well settled that a recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus

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satisfying the claimed structural limitations. Ex parte Masham, 2 USPQ2d 1647 (1987).

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Faylor et al in view of Katzakian et al (U.S. Patent No. 3,928,192). Faylor et al discloses the claimed invention with the exception of the type of ion exchange resin employed. Katzakian et al discloses (see col. 5, last line through col. 6, line 1) an ion exchange resin of the type recited; and it would have been obvious to one of ordinary skill in the art at the time the invention was made to substitute the ion exchange resin of Katzakian et al for the ion exchange resin of the primary reference, since this secondary reference ion exchange resin is capable of removing ions from a liquid in substantially the same manner as the ion exchange resin of the primary reference, to produce substantially the same results.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to I. Cintins whose telephone number is (703) 308-3840. The examiner can

normally be reached on Monday through Friday from 8:30 AM to 5:00

The fax phone numbers for this art unit are: (703) 872-9311 for "Official" faxes after Final Rejection; (703) 872-9310 for all other "Official" faxes; and (703) 872-9492 for "Draft" and other "Unofficial" faxes.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-0661.

Ivars C. Cintins
Primary Examiner
Art Unit 1724

I. Cintins
May 13, 2002

PM.